



Operating Instructions

Stopping Plugs Made of Metal

> 8292



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2 General Information

2.1 Manufacturer

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2.2 Operating Instructions Information

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Subject to alterations.

3 Intended Use

The stopping plugs made of metal are suitable for installation in electrical equipment of type of protection flameproof encapsulation "Ex d" of groups IIA, IIB and IIC, of type of protection increased safety "Ex e" and of type of protection protected by enclosures "Ex tD".

	The components are approved for use in hazardous areas of Zones 1, 2, 21 and 22.
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4 General Safety Instructions

The devices must be used only for the permitted purpose. Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision. Any alterations or modifications to the device are not permitted. Operate the component only if it is undamaged.

WARNING

Installation, maintenance, overhaul and repair may only be carried out by appropriately authorised and trained personnel.

Observe the following information during installation and operation:

- ▶ Any damage can invalidate the explosion protection
- ▶ National and local safety regulations
- ▶ National and local accident prevention regulations
- ▶ National and local assembly and installation regulations (e.g. IEC/EN 60079-14)
- ▶ Generally recognized technical regulations
- ▶ Safety instructions in these operating instructions
- ▶ Characteristic values and rated operating conditions on the rating and data plates
- ▶ Additional instruction plates fixed directly to the device
- ▶ The wall surface and that of the components should be kept clean, even (parallel) and grooveless in order to ensure the IP type.
- ▶ Secure the components against twisting and loosening.
- ▶ National regulations in the country of use
- ▶ Compliance with the permitted temperatures in accordance with IEC/EN 60079-0
- ▶ Threads must not be damaged
- ▶ If seals are used, they must not be damaged

5 Conformity to Standards

The relevant standards are listed in the EC Declaration of Conformity or IECEx Certificate of Conformity. These documents are available for download in the download area on the internet page www.stahl-ex.com.

6 Transport and Storage

- ▶ Transport and storage are only permitted in the original packing.

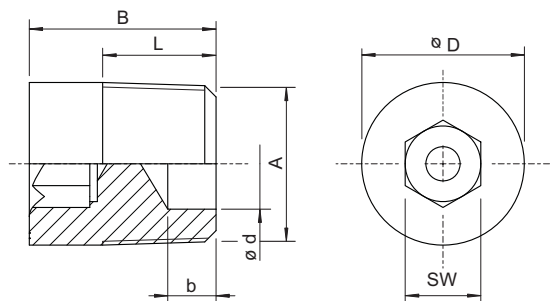
7 Technical Data

Global (IECEX)	
Gas and dust	IECEX SIR 10.0159 X Ex d IIC Ex e II Ex d I Ex e I Ex tD A21 IP6X
Europe (ATEX)	
Gas and dust	Sira 10 ATEX 1313 X II 2 G Ex d IIC II 2 G Ex e II II 2 G Ex d I II 2 G Ex e I II 2 D Ex tD A21 IP6X
Ambient conditions	
Operation temperature	-60 ... +200 °C
Mechanical data	
Degree of protection	IP66
Material	brass, nickel-plated brass, stainless steel (316L)

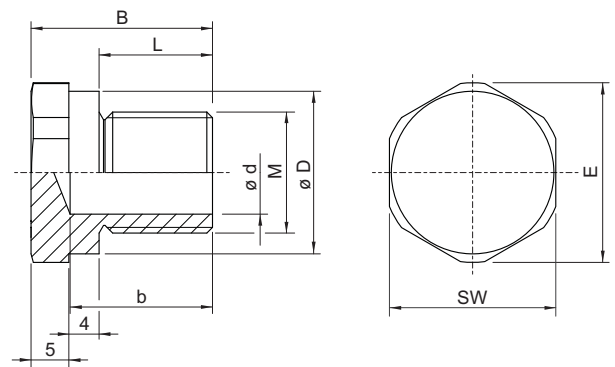
8 Dimensions

Dimensional Drawings (All Dimensions in mm) - Subject to Alterations

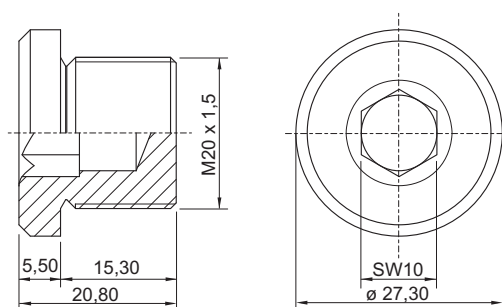
Note: for the dimensions, see selection table



Stopping plug 8292/11




Stopping plug 8292/12



Stopping plug 8292/13


Version	Thread size	Dimensions [mm]						Order number	Weight kg		
		B	D	b	d	L	A/F				
Stopping plug, NPT, hexagon socket, brass 	3/8" NPT	20	17	--	--	15	10	8292/11-BS-3/8" NPT	0.150		
	1/2" NPT	25	22	10	12	20	10	8292/11-BS-1/2" NPT	0.100		
	3/4" NPT	25	27	10	18	26	10	8292/11-BS-3/4" NPT	0.125		
	1" NPT	30	34	15	25	16	10	8292/11-BS-1" NPT	0.150		
	1 1/4" NPT	30	42	15	32	26	10	8292/11-BS-1 1/4" NPT	0.150		
	1 1/2" NPT	31	49	16	39	26	10	8292/11-BS-1 1/2" NPT	0.150		
	2" NPT	32	61	17	49	27	14	8292/11-BS-2" NPT	0.200		
	2 1/2" NPT	45	73	30	57	39	14	8292/11-BS-2 1/2" NPT	0.200		
	3" NPT	46	89	31	73	39	14	8292/11-BS-3" NPT	0.250		
	3 1/2" NPT	48	102	33	86	42	14	8292/11-BS-3 1/2" NPT	0.275		
Stopping plug, NPT, hexagon socket, nickel-plated brass 	4" NPT	49	115	34	99	43	14	8292/11-BS-4" NPT	0.300		
	3/8" NPT	20	17	--	--	15	10	8292/11-BN-3/8" NPT	0.150		
	1/2" NPT	25	22	10	12	20	10	8292/11-BN-1/2" NPT	0.100		
	3/4" NPT	25	27	10	18	20	10	8292/11-BN-3/4" NPT	0.125		
	1" NPT	30	34	15	25	25	10	8292/11-BN-1" NPT	0.150		
	1 1/4" NPT	30	42	15	32	26	10	8292/11-BN-1 1/4" NPT	0.150		
	1 1/2" NPT	31	49	16	39	26	10	8292/11-BN-1 1/2" NPT	0.150		
	2" NPT	32	61	17	49	27	14	8292/11-BN-2" NPT	0.200		
	2 1/2" NPT	45	73	30	57	39	14	8292/11-BN-2 1/2" NPT	0.200		
	3" NPT	46	89	31	73	42	14	8292/11-BN-3" NPT	0.250		
Stopping plug, NPT, hexagon socket, stainless steel 	3 1/2" NPT	48	102	33	86	43	14	8292/11-BN-3 1/2" NPT	0.275		
	4" NPT	49	115	34	99	43	14	8292/11-BN-4" NPT	0.300		
	3/8" NPT	20	17	--	--	15	10	8292/11-SS-3/8" NPT	0.150		
	1/2" NPT	25	22	--	--	20	10	8292/11-SS-1/2" NPT	0.100		
	3/4" NPT	25	27	--	--	20	10	8292/11-SS-3/4" NPT	0.125		
	1" NPT	30	34	--	--	25	10	8292/11-SS-1" NPT	0.150		
	1 1/4" NPT	30	42	--	--	26	10	8292/11-SS-1 1/4" NPT	0.150		
	1 1/2" NPT	31	49	--	--	26	10	8292/11-SS-1 1/2" NPT	0.150		
	2" NPT	32	61	--	--	27	14	8292/11-SS-2" NPT	0.200		
	2 1/2" NPT	45	73	--	--	40	14	8292/11-SS-2 1/2" NPT	0.200		
Version	Thread size	Dimensions [mm]							Order number	Weight kg	
		B	D	b	d	L	E	A/F			
	Stopping plug, metric / NPT, hexagon head, nickel-plated brass 	M16 x 1.5	24	22	22	11	15	24	22	8292/12-BN-M16x1,5	0.050
		M20 x 1.5	24	24	22	15	15	26	24	8292/12-BN-M20x1,5	0.075
		M24 x 1.5	24	30	18	20	15	32	30	8292/12-BN-M24x1,5	0.075
		M25 x 1.5	24	30	22	20	15	32	30	8292/12-BN-M25x1,5	0.075
		M32 x 1.5	24	40	19	27	15	40	36	8292/12-BN-M32x1,5	0.100
		M33 x 1.5	24	36	18	27	15	39	36	8292/12-BN-M33x1,5	0.100
		M40 x 1.5	24	46	19	35	15	50	46	8292/12-BN-M40x1,5	0.150
		M42 x 1.5	24	46	20	35	15	50	46	8292/12-BN-M42x1,5	0.150
		M48 x 1.5	24	54	18	41	15	60	55	8292/12-BN-M48x1,5	0.175
		M50 x 1.5	24	55	19	43	15	59	55	8292/12-BN-M50x1,5	0.175
		M56 x 1.5	24	59	19	48	15	65	60	8292/12-BN-M56x1,5	0.200
		M63 x 1.5	24	70	19	55	15	76	70	8292/12-BN-M63x1,5	0.250
		M75 x 1.5	24	80	19	70	15	86	80	8292/12-BN-M75x1,5	0.300
		M90 x 2	24	95	19	83	15	103	95	8292/12-BN-M90x2	0.350
		M100 x 2	24	108	19	93	15	117	108	8292/12-BN-M100x2	0.400
		1/2" NPT	29	24	26	13	20	26	24	8292/12-BN-1/2" NPT	0.100
		3/4" NPT	30	30	27	18	15	32	30	8292/12-BN-3/4" NPT	0.125
		1" NPT	34	36	31	24	16	39	36	8292/12-BN-1" NPT	0.150
		1 1/4" NPT	35	55	30	28	17	59	55	8292/12-BN-1 1/4" NPT	0.150
		1 1/2" NPT	35	46	30	34	17	50	46	8292/12-BN-1 1/2" NPT	0.150
		2" NPT	36	65	31	46	27	70	65	8292/12-BN-2" NPT	0.200
		2 1/2" NPT	49	80	44	57	40	86	80	8292/12-BN-2 1/2" NPT	0.200
		3" NPT	51	98	46	72	25	107	99	8292/12-BN-3" NPT	0.250
		3 1/2" NPT	52	108	47	84	37	117	108	8292/12-BN-3 1/2" NPT	0.275
		4" NPT	53	127	48	97	45	137	127	8292/12-BN-4" NPT	0.300

Version	Thread size	Dimensions [mm]							Order number	Weight
		B	D	b	d	L	E	A/F		kg
Stopping plug, metric, hexagon head, stainless steel	M16 x 1.5	24	22	--	--	15	24	22	8292/12-SS-M16x1,5	0.050
	M20 x 1.5	24	24	--	--	15	26	24	8292/12-SS-M20x1,5	0.075
	M25 x 1.5	24	30	--	--	15	32	30	8292/12-SS-M25x1,5	0.075
	M32 x 1.5	24	40	--	--	15	40	36	8292/12-SS-M32x1,5	0.100
	M40 x 1.5	24	46	--	--	15	50	46	8292/12-SS-M40x1,5	0.150
	M50 x 1.5	24	55	--	--	15	59	55	8292/12-SS-M50x1,5	0.175
	M56 x 1.5	24	59	--	--	15	65	60	8292/12-SS-M56x1,5	0.200
	M63 x 1.5	24	70	--	--	15	76	70	8292/12-SS-M63x1,5	0.250
	M75 x 1.5	24	80	--	--	15	86	80	8292/12-SS-M75x1,5	0.300
	M90 x 2	24	95	--	--	15	103	95	8292/12-SS-M90x2	0.350
M100 x 2	24	108	--	--	15	117	108	8292/12-SS-M100x2	0.400	



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Version	Thread size	Dimensions [mm]				Order number	Weight
		B	D	L	A/F		kg
Stopping plug, metric, hexagon socket, nickel-plated brass	M20 x 1.5	20.8	27.3	15.3	10	8292/13-BN-M20x1,5	0.075



14482E00

9 Installation

⚠ WARNING

Risk of explosion due to incorrectly installed components!

- ▷ If components are installed incorrectly, explosion protection is no longer guaranteed.
- ▶ For Ex d applications, at least 5 undamaged thread turns must match.
- ▶ For Ex e applications, the wall surface and that of the component should be kept clean, even (parallel) and grooveless in order to ensure the IP type.

⚠ WARNING

Risk of explosion due to loosened or removed stopping plugs!

- ▷ If bores are sealed incorrectly, explosion protection is no longer guaranteed!
- ▶ Prior to commissioning and during operation of the device, it must be ensured that all bores are sealed correctly with suitable stopping plugs.
- ▶ Make sure that the threads of stopping plugs and threaded bores are undamaged.
- ▶ Secure the stopping plugs against twisting and loosening.

Recommended tightening torques

Thread, NPT	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	
Nm	15	19	23	28	32	37	43	50	58	67	78	
Thread, metric	M10	M12	M16	M20	M25	M32	M40	M50	M63	M75	M90	M100
Nm	15	16	21	24	27	31	36	44	53	60	70	78



The tightening torque depends on the seal and the sealing material (optional), the material and the thread length.

10 Maintenance, Overhaul and Repair

WARNING

Risk of explosion due to loosened or removed stopping plugs!

- ▷ If bores are sealed incorrectly, explosion protection is no longer guaranteed!
- ▶ Prior to commissioning and during operation of the device, it must be ensured that all bores are sealed correctly with suitable stopping plugs.

The following details must be checked during maintenance

- ✗ Components are held securely in place
- ✗ Compliance with the permissible temperatures
- ✗ Damage to the thread and to the seal, if seals are used

11 Accessories and Spare Parts

WARNING

Use only original R. STAHL accessories and spare parts.

12 Disposal

The national waste disposal regulations have to be observed.

13 EC Declaration Of Conformity

EG-Konformitätserklärung EC Declaration of Conformity Déclaration de Conformité CE



R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany
erklärt in alleiniger Verantwortung, declares in its sole responsibility, déclare sous sa seule responsabilité,

dass das Produkt
that the product
que le produit

Verschlussstopfen
Stopping plug
Bouchon

Typ, type, type:

8292/11-...-..., 8292/12-...-..., 8292/13-...-...

Kennzeichnung, marking, marquage:

II 2GD Ex d IIC / Ex e II / Ex tD A21 IP6X 0158
I M2 Ex d I / Ex e I

mit der EG-Baumusterprüfbescheinigung:
under EC-Type Examination Certificate:
avec Attestation d'examen CE de type:

SIRA 10ATEX1313X
(Sira Certification Service
Rake Lane, Eccleston,
Chester, CH4 9JN, England)

auf das sich diese Erklärung bezieht, mit den folgenden Normen oder normativen Dokumenten übereinstimmt
which is the subject of this declaration, is in conformity with the following standards or normative documents
auquel cette déclaration se rapporte, est conforme aux normes ou aux documents normatifs suivants

Bestimmungen der Richtlinie Terms of the directive Prescription de la directive	Nummer sowie Ausgabedatum der Norm Number and date of issue of the standard Numéro ainsi que date d'émission de la norme
94/9/EG: ATEX-Richtlinie	EN 60079-0:2006
94/9/EC: ATEX Directive	EN 60079-1:2004
94/9/CE: Directive ATEX	EN 60079-7:2007
	EN 50281-1-1:1998

Waldenburg, 2011-10-13

Ort und Datum
Place and date
Lieu et date

J.-P. Rückgauer
Leiter Entwicklung und Technik
Director Design and Technology
Directeur Développement et Technique

Dr. S. Jung
Leiter Qualitätsmanagement
Director Quality Management Dept.
Directeur Dép. Assurance de Qualité

F-4174-601 01/2011 STMZ

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